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# HIGH STRENGTH WASTEWATER

Presented to Mid-Maine Code Enforcement Officers Association  
November 15, 2006 – Strong, Maine

**Russell G. Martin, PE**  
**Director, Subsurface Wastewater Program**

- A. Definitions (15 min.)
  - a. Normal domestic wastewater
  - b. High strength – non-engineered
  - c. High strength – engineered
- B. Wastewater Characteristics (30 min.)
  - a. Biological
  - b. Chemical
- C. Typical Generators (15 min.)
  - a. Commercial
  - b. Industrial
- D. Treatment Methods (30 min.)
  - a. Primary
  - b. Secondary
- E. Subsurface Disposal Area Sizing (30 min.)
  - a. Hydraulic
  - b. Organic
- F. Other Design Considerations (15 min.)
  - a. Reserve area
  - b. Monitoring ports
- G. Permitting (15 min.)
  - a. DHHS – Subsurface Rules
  - b. DEP – UIC Rules
- H. System Inspection (15 min.)
- I. Operation & Maintenance (15 min.)

*Our vision is Maine people living safe, healthy and productive lives.*